



CDF Operations Report

JJ Schmidt
1-July-2004
CDF Weekly Meeting



STORE SUMMARY

Store	Start Date	Duration (hours)	Inst Lum Initial e30 cm-2 s-1	Int. Lum Delivered nb-1	Live Lum nb-1	Good/w Silicon nb-1	Tevatron Terminate
3589	6/23	27.8	89.2	3,656	2,899 79%	2,662 73%	OK
3592	6/25	16.4	90.6	2,694	2,042 76%	1,451* 54%	Quench (Fridge)
3594	6/26	27.3	88.5	3,527	2,646 75%	2,634 75%	OK
3596	6/27	10.5	78.5	1,832	1,540 84%	1,449 79%	QUAKE
3597	6/28	24.0	67.5	2,417	2,129 88%	1,938+ 80%	OK
	Stores 3599 and 3606 lost...						
3610	7/01		37.8	ONGOING STORE			
Total 3589-3597		106.0		14,126	11,256 80%	10,134 72%	

* PCAL readout problem

+ ISL DAQ problem



Deadtime Summary

Store	Duration (hours)	Inst Lum Initial e30 cm- 2 s-1	Int. Lum Delivered nb-1	Live Lum nb-1	DownLum nb-1	"Dead+" nb-1	Initial Dead
3589	27.8	89.2	3,656	2,899 79%	417	340 9.3%	40% 87E30
3592	16.4	90.6	2,694	2,042 76%	385	267 9.9%	30% 81E30
3594*	27.3	88.5	3,527	2,646 75%	634	247 7.0%	15% 86E30
3596	10.5	78.5	1,832	1,540 84%	175	117 6.4%	4% 65E30
3597	24.0	67.5	2,417	2,129 88%	189	99 4.1%	2% 36E30
Total 3589-3597	106.0		14,126	11,256 80%	1,800	1,070 7.6%	

New "hardcore" trigger table store 3594 and after



Downtime Summary

DOWNTIME SUMMARY (percentage of luminosity)

- 20% EVB (but *Guillelmo* would defend....)
- 16% Beam Conditions
- 16% Silicon HV problems
- 8% CMX HV problems
- 40% All other categories



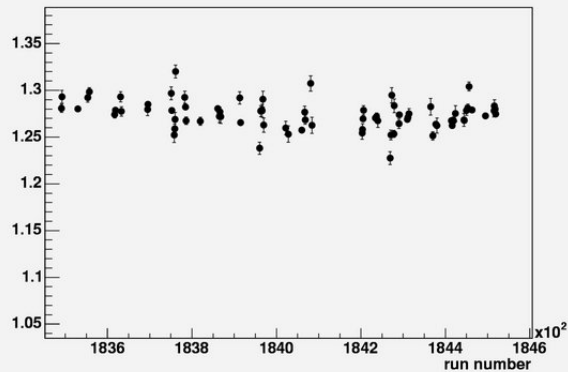
OFFLINE STATUS

- - > Dear JJ,
 - >
 - > Here is the summary of the offline operation this week:
 - >
 - > 1) Farm processed raw data up to run# 184518 (taken on 6/28).
 - > There is no delay for production and calibration.
 - >
 - > 2) Physics monitoring (Plots were sent by the offline CO, I think.)
 - > There is no change except for the number of J/psi per pb⁻¹.
 - > #J/psi was decreased due to the change in trigger.
 - > (Threshold 1.5GeV -> 2.0GeV and/or prescaling)
 - >
 - > If you have any questions, please let us know.
 - >
 - > Best regards,
 - > Tomonobu Tomura

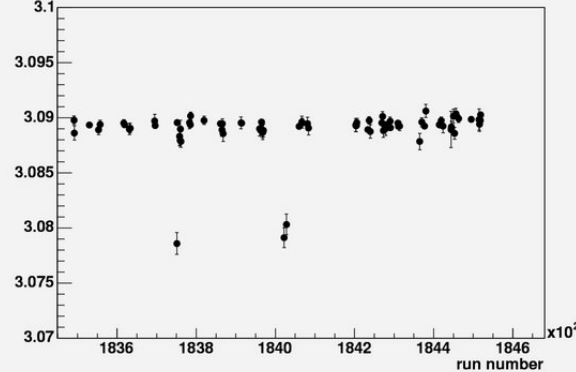


OFFLINE PLOTS

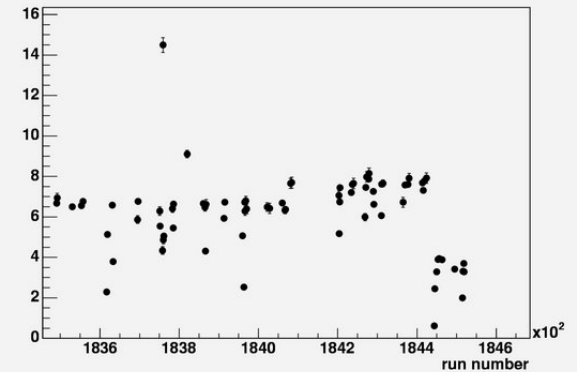
E/p vs run number



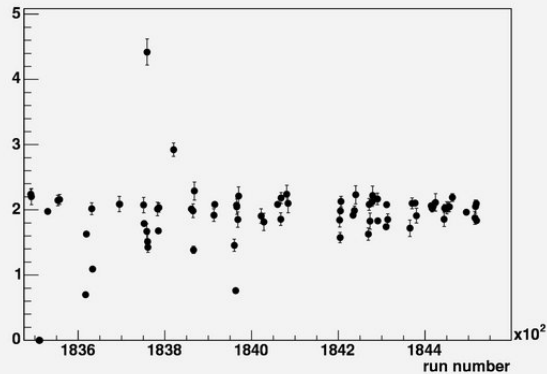
Jpsi mass vs run number



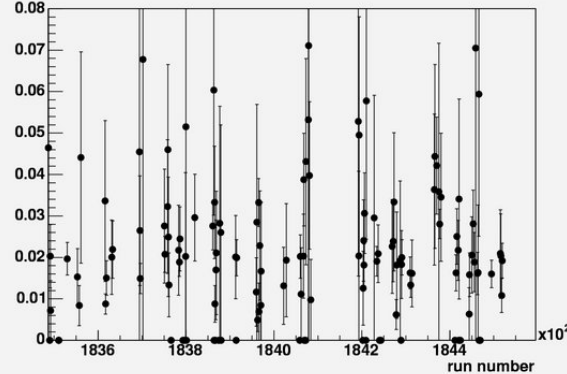
N(Jpsi mumu events) per pb^-1 vs run number



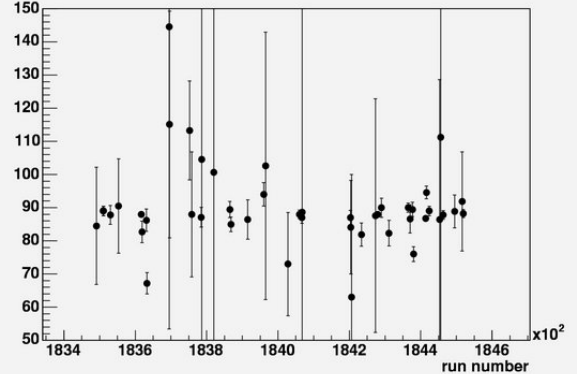
N(Wenu events) per nb^-1 vs run number



N(Zee events) per nb^-1 vs run number



Zee mass vs run number





CDF STATUS

- COT full ON
- Tevatron beam conditions mostly good for Silicon
- Tevatron very reliable last week - two stores lost this week (one "mixed mode" and one normal)
- Current trigger table handles $90E30$ with about 15-20% deadtime. Deadtime (probably) less than 5% integrated over store.